

Intermountain West Energy Sustainability & Transitions

On the road to carbon neutrality in the Intermountain West





What Is I-WEST

DOE funded, Los Alamos led project looking at paths to carbon neutrality in the intermountain west

- Seeks place-based solutions
- Goal of an equitable transition (including economic issues)
- Investigates whether an intersection of hydrogen production, CCUS, power generation and biofuels can simultaneously help address special challenges in these states while helping with economic development





I-WEST

Intermountain West Energy Sustainability & Transitions

A Place-based Approach to Achieving Carbon Neutrality in the Intermountain West

I-WEST is developing a regional, stakeholder-informed technology roadmap

 Roadmap will quantify technology pathways, identify factors that could aid or impede the pathways, and assess the impacts of the pathways.

The I-WEST assessment is being sponsored by US Department of Energy.

The Roadmap will be made available publicly.















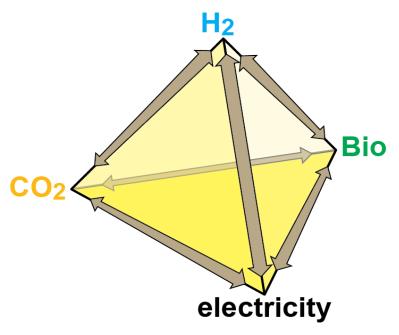






Stakeholder workshops being held within the state. Regional topical workshops focused on technology pathways

It is anticipated that many technology pathways will tie to a hydrogen economy.



- CO₂ capture from point sources
- CO₂ capture from the air
- CO₂ storage & utilization
- Hydrogen generation
- Hydrogen utilization
- Bioenergy
- Biological CO₂ conversion & value-added products
- Electricity generation



Thumbnail of the I-WEST Phase I Assessment

Objectives



- Regionally relevant technology pathways
- Options that can be deployed now & ones needed within next decade
- •To facilitate <u>regional coalitions</u>

Strategy

- Place-based approach
- •Emissions reduction → new, symbiotic energy economies

